



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

DISCOVERY OF NEW RILLS ON THE MOON FROM THE LICK OBSERVATORY NEGATIVES.

By Professor L. WEINEK, Director of the Observatory of Prague.

[Abstract by Professor HOLDEN.]

Professor WEINEK has asked me to communicate to the Society a brief account of new rills which he has discovered in his examination of the negatives of the moon made at Mt. Hamilton. It was hoped to accompany this note with reproductions of Professor WEINEK's exquisite drawings, but it is not possible to do so, at present. The drawings will appear in due time in the Publications of the Observatory of Prague, and also in a volume to be printed by the Lick Observatory by the aid of the generous gift of Mr. LAW. (See *Publications* A. S. P., vol. iii, p. 377.)

Cleomedes (drawn 20-fold enlarged, Nov. 19, 1891, from the Mt. Hamilton negative of August 31, 1890, 14^h 27^m P. s. t.). Between craters B and *i* (NEISON). The westernmost rill originates at the foot of a hill north of C, and can be traced up to an angle in the west wall. There is a short rill crossing the first described. Both these rills show bright edges (walls) and seem, therefore, to be real. Other rills are shown on Professor WEINEK's drawings. These rills should be verified either on other plates (not now available) or at the telescope.

Eimmart (drawn 20-fold enlarged, Nov. 22, 1891; discovered Nov. 21, on the Mt. Hamilton negative of Aug. 23, 1888). Two long rills extending east and west, south of *Eimmart* S (SCHMIDT). These have bright walls and are well seen on the plate taken 1890 Aug. 31, 14^h 25^m and not so well on the plate taken at 14^h 27^m on the same night. They are crossed by many others which are not so certain.

Picard (drawn 20-fold enlarged, from the Mt. Hamilton negative of Aug. 31, 1890, 14^h 25^m P. s. t.).

New rills discovered Dec. 1, 1891.

1. North of *Picard*; fork-shaped, and with bright walls.
2. West of *Picard*; rill with crater formation; probable.
3. Also rills east of *Picard*.

A drawing is required to explain the situation of these objects.

Longomontanus (drawn 20-fold enlarged, from the Mt. Ham-

ilton negatives of Oct. 12, 1891, 7^h 29^m 7^s–11^s P. s. t. and of Oct. 12, 1891, 7^h 30^m 53^s–56^s P. s. t.).

New rills discovered 1892 Jan. 31.

1. Extending right through *Longomontanus* from south to north with a knee in the middle towards the west. Bright walls.

2. In the southern interior portion, crossing No. 1, and extending to the central peak.

3. Rill east of and close to the central peak.

4. Valley to the central peak towards the north, etc.

The foregoing bare catalogue seems to do scant justice to Professor WEINEK'S discoveries as they are exhibited on the beautiful pencil drawings now at the Lick Observatory, but it is unfortunately all that can be given at this time, as these drawings require the most perfect processes of copying (heliogravure) in order to represent the originals.

E. S. H.